

WHAT IS CLAIMED IS:

1. A transmission apparatus for a working vehicle, comprising:
 - a hydrostatic transmission including
 - a hydraulic pump driven by a prime mover equipped on said working vehicle,
 - a hydraulic motor fluidly connected to said hydraulic pump, and
 - a hollow motor shaft serving as an output shaft of said hydraulic motor;
 - and
 - sun-and-planetary gearing including first, second and third elements arranged coaxial to said motor shaft,
 - wherein said first element is drivingly connected to said motor shaft so as to be rotated integrally with said motor shaft,
 - wherein said second element is drivingly connected to front wheels of said working vehicle, and
 - wherein said third element is drivingly connected to rear wheels of said working vehicle and differentially connected to said second element through said first element.
2. The transmission apparatus for a working vehicle as set forth in claim 1, further comprising:
 - a differential locking mechanism for locking said second and third elements with each other.
3. The transmission apparatus for a working vehicle as set forth in claim 2, wherein at least one of said second and third elements includes a shaft drivingly connected to either said front or rear wheels, and wherein said differential locking mechanism is disposed on said shaft.

4. The transmission apparatus for a working vehicle as set forth in claim 1, wherein said sun-and-planetary gearing is disposed in front of said hydrostatic transmission.

5. The transmission apparatus for a working vehicle as set forth in claim 1, wherein said sun-and-planetary gearing is disposed behind said hydrostatic transmission.

6. The transmission apparatus for a working vehicle as set forth in claim 1, further comprising:

a housing, wherein said hydrostatic transmission is disposed in said housing, and wherein said sun-and-planetary gearing is disposed outside said housing.

7. The transmission apparatus for a working vehicle as set forth in claim 6, further comprising:

a second housing, wherein said sun-and-planetary gearing is disposed in said second housing, and wherein said second housing is attached to said housing.

8. The transmission apparatus for a working vehicle as set forth in claim 1, wherein said working vehicle is a riding lawn mower.